

GARBAFLEX 11R51

Flat and shaped wire

GARBAFLEX 11R51 is an austenitic stainless steel wire alloyed with molybdenum, supplied in the cold rolled or annealed condition.

Chemical composition

Element	Weight %
C	0.07% - 0.09%
Si	1.20% - 1.80%
Mn	1.50% - 2.00%
P max.	0.025%
S max.	0.010%
Cr	16.00% - 18.00%
Ni	7.00% - 8.50%
Mo	0.50% - 0.80%

Mechanical properties

Tensile strength

As cold rolled max. 2400 N/mm².

As annealed max. 850 N/mm².

Flat wire tolerance

Width (mm)	Tolerance (mm)
1.00 - 5.00	±0.050
5.01 - 8.00	±0.070
8.01 - 10.00	±0.100
Thickness (mm)	Tolerance (mm)
0.30 - 0.80	±0.015
0.81 - 1.00	±0.019
1.01 - 1.60	±0.025

Shaped wire tolerance

Width (mm)	Tolerance (mm)
1.50	±0.020

1.51 - 3.00	± 0.030
3.01 - 5.00	± 0.040
5.01 - 7.00	± 0.050
7.01	± 0.060

Surface conditions

Surface condition

Bright. Surface defects max. 1% of thickness.

Technical specification

Property	Value		
E modulus of elasticity	Abt. 180 kN/mm ² in drawn condition.	Abt. 185 kN/mm ² after heat treatment.	
G modulus of shear	Abt. 70 kN/mm ² in drawn condition.	Abt. 73 kN/mm ² after heat treatment.	Density: 7.90 kg/dm ³ .
Elongation	As annealed min. 40%.		
Microstructure	Austenite		
Execution	Rolled on 2 sides (flat).	Rolled on 4 sides (shaped).	
Camber	Max. 3 mm measured on 1 m length.		

Steel grades and product standards

Nearest equivalent product standards	EN ISO 6931-1	EN ISO 6931-1	ASTM A313
Nearest equivalent steel grades	EN/DIN 1.4310	AISI/SAE 302	JIS SUS 302

Additional

Additional information

Delivery form

On wooden spools, max. 250 kg.